General Purpose Fixed Range



APPLICATIONS

- HVAC
- Hydraulics & pneumatics
- General industrial
- Automation

PT20 SERIES

- Gauge, compound, absolute and vacuum ranges from 1 psig to 15,000 psig
- Current and voltage outputs available
- 316 and 13-8PH Stainless Steel wetted parts
- cULus Listed
- RoHS compliant
- CE compliant to suppress RFI, EMI and ESD

SPECIFICATIONS

Output signals	4 mA to 20 mA, 2-wire; 0 Vdc to 5 Vdc, 3-wire; 1 Vdc to 5 Vdc, 3-wire; 0 Vdc to 10 Vdc, 3-wire; 0.5 to 4.5 Vdc, 3-wire; 0.5 to 4.5 Vdc ratiometric, 3-wire	
Pressure ranges	Gauge, compound, absolute and vacuum ranges from 1 psi to 15,000 psi	
Accuracy*	±0.50% of span, non-linearity best fit straight line per IEC 61298-2 at reference conditions	
Response time	≤ 4 ms (between 10% and 90% full scale)	
Service life	> 100 million load cycles	
Temperature ranges*	Compensated: Media: Ambient: Storage:	32 °F to 176 °F (0 °C to 80 °C) -22 °F to 212 °F (-30 °C to 100 °C) -22 °F to 212 °F (-30 °C to 100 °C) -40 °F to 158 °F (-40 °C to 70 °C)
Power requirement*	8 Vdc to 30 Vdc: 14 Vdc to 30 Vdc: 4.5 Vdc to 5.5 Vdc:	4 mA to 20 mA, 2-wire 0 Vdc to 5 Vdc, 3-wire 1 Vdc to 5 Vdc, 3-wire 0.5 Vdc to 4.5 Vdc, 3-wire 0 Vdc to 10 Vdc, 3-wire 0.5 Vdc to 4.5 Vdc ratiometric, 3-wire
Proof pressure	< 7,500 psi: ≥ 7,500 psi:	2 times full scale 1.5 times full scale
Burst pressure	< 7,500 psi: ≥ 7,500 psi:	3 times full scale 2 times full scale
Measuring element	316 Stainless Steel: 13-8PH Stainless Steel:	Vacuum to 150 psi ≥ 150 psi
Process connection	316 Stainless Steel	
Electrical connection	PA and PBT	
Housing material	316 Stainless Steel	
Environmental rating	IP65: DIN EN 175301-803 Form A, DIN EN 175301-803 Form C IP67: M12 x 1 (4-pin)	
Electromagnetic rating	CE compliant to EMC norm EN 61326:2014/A1:1998 RFI, EMI and ESD protection	
Electrical protection	Reverse polarity, over-voltage and short circuit protection	
Shock	500 g's according to IEC 60068-2-27	
Vibration	10 g's according to IEC 60068-2-6	
Weight	Approximately 2.8 oz.	

* See user manual for detailed specifications

⚠ **WARNING:** This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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ORDERING INFORMATION

SERIES	**PT20**							
PRESSURE RANGES	**15psiv**	-15 psig to 0 psig	**5psig**	0 psig to 5 psig	**750psig**	0 psig to 750 psig	**15000psig**	0 psig to 15,000 psig
	15psic	-15 psig to 15 psig	**15psig**	0 psig to 15 psig	**1000psig**	0 psig to 1,000 psig	**15psia**	0 psia to 15 psia
	30psic	-15 psig to 30 psig	**30psig**	0 psig to 30 psig	**1500psig**	0 psig to 1,500 psig	**30psia**	0 psia to 30 psia
	60 psic	-15 psig to 60 psig	**60psig**	0 psig to 60 psig	**2000psig**	0 psig to 2,000 psig	**60psia**	0 psia to 60 psia
	100psic	-15 psig to 100 psig	**100psig**	0 psig to 100 psig	**3000psig**	0 psig to 3,000 psig	**100psia**	0 psia to 100 psia
	160psic	-15 psig to 160 psig	**150psig**	0 psig to 150 psig	**5000psig**	0 psig to 5,000 psig	**150psia**	0 psia to 150 psia
	200psic	-15 psig to 200 psig	**200psig**	0 psig to 200 psig	**6000psig**	0 psig to 6,000 psig	**200psia**	0 psia to 200 psia
	300psic	-15 psig to 300 psig	**300psig**	0 psig to 300 psig	**7500psig**	0 psig to 7,500 psig	**300psia**	0 psia to 300 psia
	1psig	0 psig to 1 psig	**500psig**	0 psig to 500 psig	**10000psig**	0 psig to 10,000 psig		
	psiv = vacuum gauge pressure	psic = compound gauge pressure	psig = gauge pressure	psia = absolute pressure	Other ranges available upon request.			
ACCURACY	**1**	±0.50% (of span, non-linearity, BFSL per IEC 61298-2 at reference conditions)						
OUTPUT SIGNALS	**1**	4 mA to 20 mA, 2-wire	**5**	0 Vdc to 10 Vdc, 3-wire				
	2	0 Vdc to 5 Vdc, 3-wire	**13**	0.5 Vdc to 4.5 Vdc, 3-wire (ratiometric)				
	3	1 Vdc to 5 Vdc, 3-wire	**31**	0.5 Vdc to 4.5 Vdc, 3-wire (non-ratiometric)				
PROCESS CONNECTIONS	**1**	1/8" NPT male	**8**	1/2" NPT male	**45**	7/16-20 SAE J514 FIG 34B (Non-Adjustable)		
	2	1/4" NPT male	**10**	G 1/4 B EN 837	**83**	G 1/2 B EN 837		
ELECTRICAL CONNECTIONS	**7**	DIN EN 175301-803 Form C	**17**	DIN EN 175301-803 Form C w/ 3 ft. cable				
	8	DIN EN 175301-803 Form A	**18**	DIN EN 175301-803 Form A w/ 3 ft. cable				
	14	DIN EN 175301-803 Form A w/ 1/2" NPT female conduit	**25**	M12 x 1 (4-pin)				
OPTION	**ST8**	Threaded Orifice (0.8 mm)						

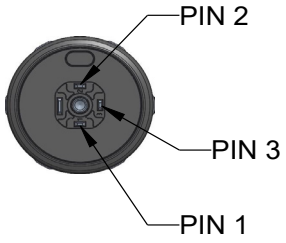
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

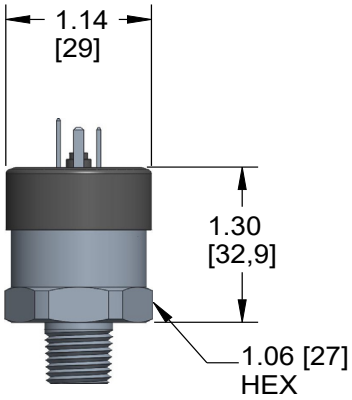
EXAMPLE **PT20 – 500psig – 1 – 1 – 2 – 8 – ST8**

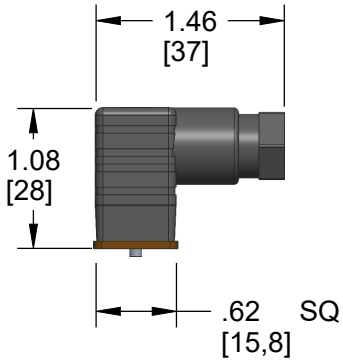
Series ..... PT20 Series
Pressure range ..... 0 psig to 500 psig
Accuracy ..... ±0.5% of span (BFSL)
Output signal ..... 4 mA to 20 mA, 2-wire
Process connection ..... 1/4" NPT Male
Electrical connection ..... DIN EN 175301-803 Form A
Option ..... Threaded Orifice

Dimensions

PT20 (DIN EN 175301-803 Form C)

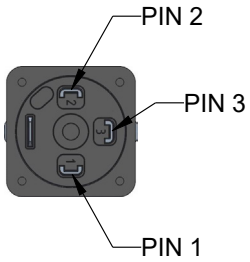


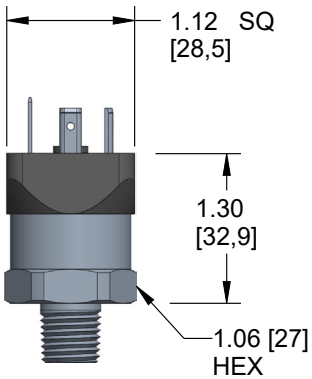


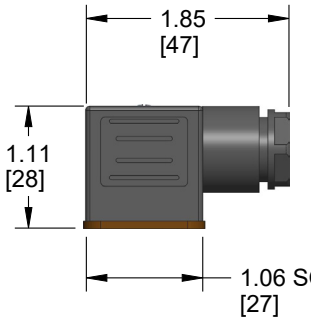


DIN Form C (PT20-7)

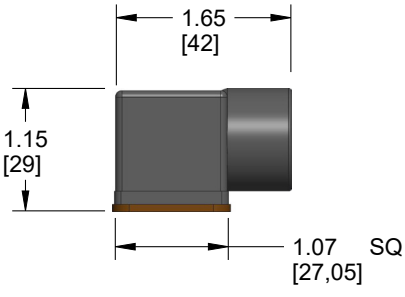
PT20 (DIN EN 175301-803 Form A)





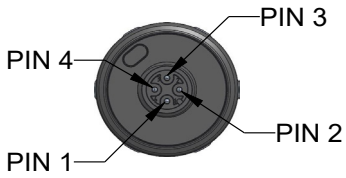


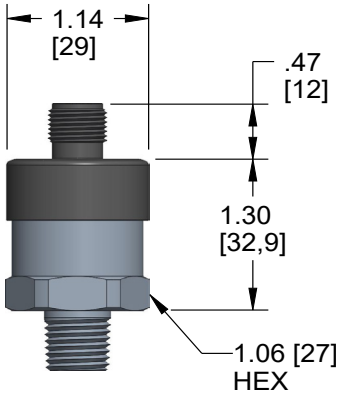
DIN Form A (PT20-8)



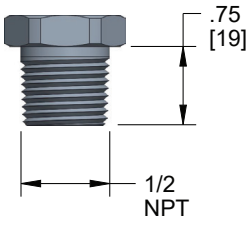
DIN Form A 1/2 NPT Conduit
(PT20-14)

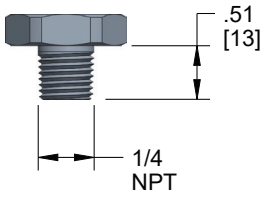
PT20-25 (M12 x 1 4-pin)

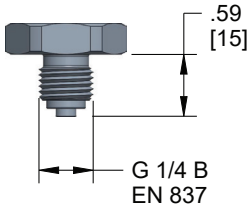


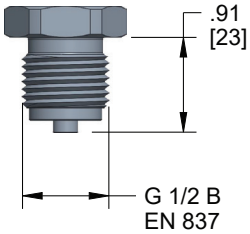


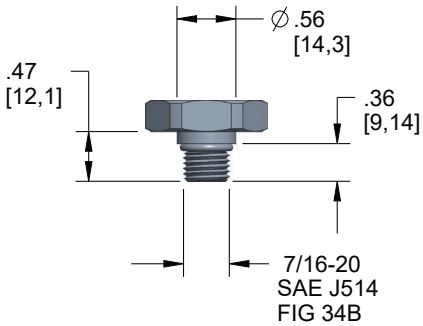
PT20 Process Connections











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